

United States
Department of
Agriculture

Forest
Service

Northeastern Area
State & Private
Forestry

180 Canfield Street
Morgantown, WV 26505

NPS
OK IN
A+M



Reply To: 3460/3410

Date: December 17, 1993

Mr. Steve Cinnamon
Integrated Pest Management Coordinator
USDI National Park Service
Midwest Region
1709 Jackson Street
Omaha, NB 68102-2571

Dear Mr. Cinnamon:

Summaries of the 1983-1993 gypsy moth trapping program conducted at four National Park Service sites within the Midwest Region are enclosed for your information (Table 1). Maps showing trap locations at Hopewell Culture National Historical Site and Indiana Dunes National Lakeshore have also been enclosed (Figures 1-2). The purpose of the trapping program is to monitor low level gypsy moth populations and to help us determine when more intensive survey methods should be employed.

Over the past eleven years Lincoln Boyhood National Memorial continues to trap no male gypsy moths. In 1993, Indiana Dunes National Lakeshore trapped 19 moths (a decrease from last year's 25 moths), and Hopewell Culture National Historical Site trapped one male gypsy moth this year. The trapping results at these parks indicate that the gypsy moth should not have any significant impact on the forest resources in the immediate future.

Gypsy moth catches at Cuyahoga Valley National Recreation Area have increased significantly this year. Moth catches averaged 32 moths/trap (range = 0-218) in 1992 and averaged 193 moths/trap (range = 0-961) in 1993. There were 20 sites where trap catches exceeded 500 moths per trap; 31 sites had between 200 and 499 moths per trap; and 37 sites had between 100 and 199 moths per trap. The remaining 71 sites had between 0 and 99 moths per trap.

We recommend an egg mass survey be conducted at trap locations which had a catch greater than 200 male moths. This additional survey method will help identify any potential reproducing populations that may be present within the area of the trap site. Our office would be happy to provide technical assistance in getting Cuyahoga Valley NRA personnel trained in conducting egg mass surveys.

The Morgantown Field Office is no longer responsible for forest pest activities on Federal lands in Indiana. The St. Paul Field Office in Minnesota is assuming these responsibilities. Your new point-of-contact for sites located in Indiana is:

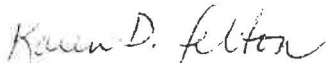


Irene Borak, Entomologist
Forest Health Protection
USDA Forest Service
1992 Folwell Avenue
St. Paul, MN 55108
(612) 649-5265
FAX: (612) 649-5285

Our office will still be responsible for sites in Ohio and we would like to see the trapping program continued at these sites at the same intensity in 1994.

Thank you for your continued cooperation and if you have any questions regarding these results, please call me at (304) 285-1556.

Sincerely,



KAREN D. FELTON
Biological Technician
Forest Health Protection

Enclosures

cc: AO
Garree Williamson, Cuyahoga Valley NRA
Phil Marshall, INDNR
Randy Knutson, Indiana Dunes NL
Don Adams, Lincoln Boyhood NM
William Gibson, Hopewell Culture NHS
Allen Baumgard, OHDA
Irene Borak, SPFO

KDF/mae

Table 1.--Summary of the 1983-1993 gypsy moth trapping program at four USDI National Park Service sites, Midwest Region.

Cuyahoga Valley National Recreation Area (Cuyahoga and Summit Counties, OH)

<u>Year</u>	<u>Number of Traps</u>	<u>Total Moths Caught</u>	<u>Positive Catch Trap Number</u>
1983	20	4	6,11,15,19
1984	20	0	--
1985	20	1	5
1986	20	30	1-3,5-10, 12,14,16,29
1987	235	100	25%
1988	247	127	25%
1989	135	897	50%
1990	194	834	50%
1991	205	2886	>75%
1992	226*	6054	All except 1,55,166,210
1993	226**	30,651	75%

*In 1992, 39 traps lost or damaged, leaving 187 traps with viable data.

**In 1993, 67 traps lost, damaged or not deployed, leaving 159 traps with viable data.

Hopewell Culture National Historical Site (Rose County, OH)

<u>Year</u>	<u>Number of Traps</u>	<u>Total Moths Caught</u>	<u>Positive Catch Trap Number</u>
1983	5	0	--
1984	5	0	--
1985	5	1	5
1986	5	0	--
1987	5	0	--
1988	6	0	--
1989	6	0	--
1990	6	0	--
1991	6	0	--
1992	10	0	--
1993	7	1	5

Indiana Dunes National Lakeshore (Port County, IN)

<u>Year</u>	<u>Number of Traps</u>	<u>Total Moths Caught</u>	<u>Positive Catch Trap Number</u>
1983	15	0	--
1984	15	0	--
1985	15	0	--
1986	15	0	--
1987	15	0	--
1988	15	6	5,6,9,11
1989	44	0	--
1990	25	9	?
1991	25	3	?
1992	25	25	1,3,4,8,11,14, 15,17-19,23,25
1993	25	19	1,4-7,10,11,15, 20,21,23,25

Lincoln Boyhood National Memorial (Spenser County, IN)

<u>Year</u>	<u>Number of Traps</u>	<u>Total Moths Caught</u>	<u>Positive Catch Trap Number</u>
1983	5	0	--
1984	5	0	--
1985	5	0	--
1986			No data
1987	6	0	--
1988	7	0	--
1989	6	0	--
1990	6	0	--
1991	6	0	--
1992	9	0	--
1993	10	0	--

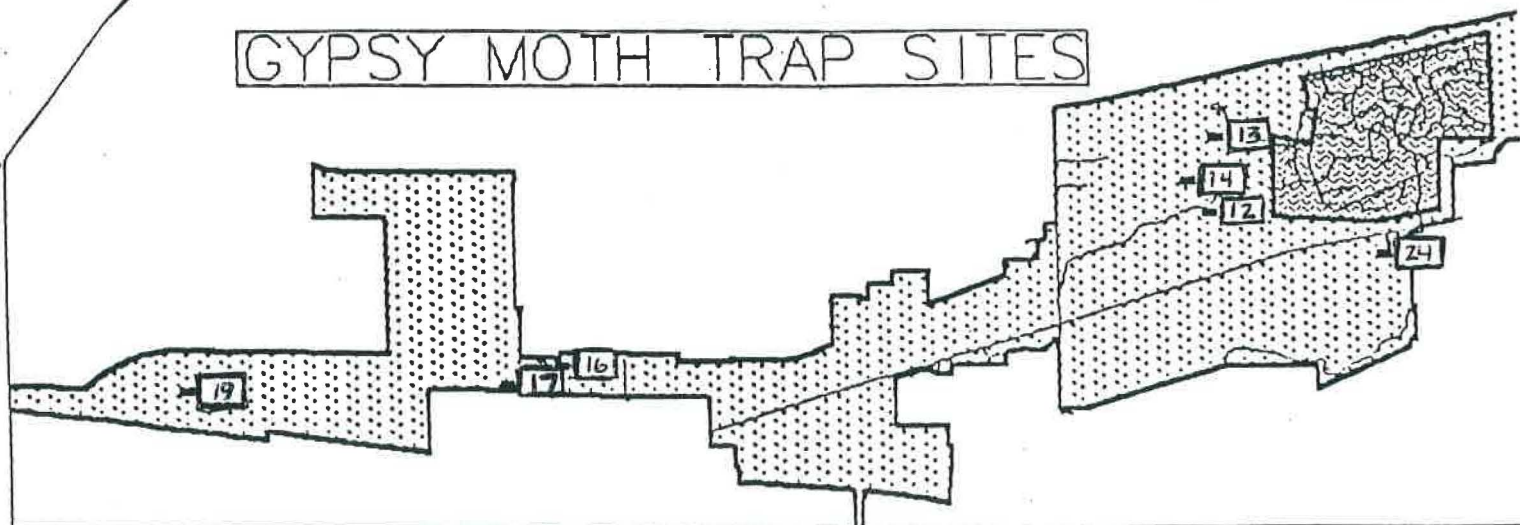
[illegible]

=Positive male moth catch

Figure 2.--1993 Gypsy moth trap locations.

Indiana Dunes National Lakeshore, Indiana

GYPSY MOTH TRAP SITES



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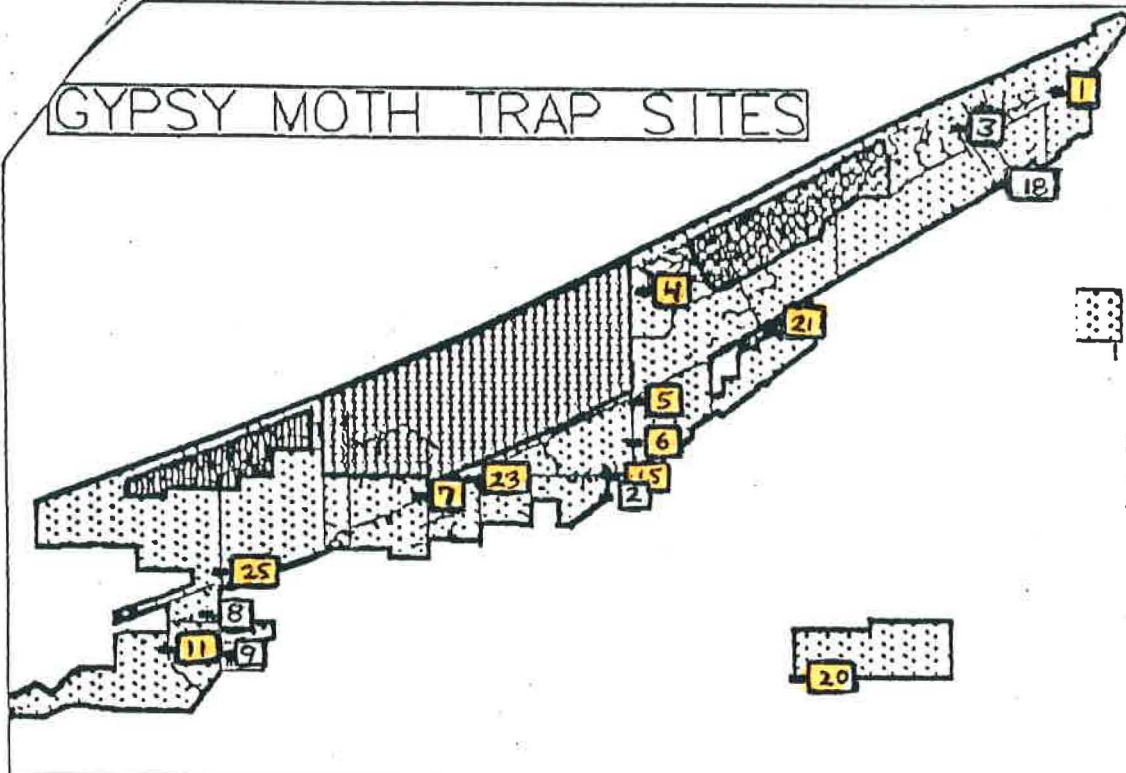
=Positive male moth catch



1 Indiana Dunes
5 Ogden Dunes

Indiana Dunes National Lakeshore, Indiana

GYPSY MOTH TRAP SITES



1 Indiana Dunes
2 Beverly Shores
3 Dunes State Park
4 Dune Acres

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